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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Mensa-Wilmot et al.
Serial No.: 09/697,789
Filed : 10/26/2000
Title : STRUCTURE FOR POLYCRYSTALLINE DIAMOND INSERT DRILL BIT
BODY AND METHOD FOR MAKING

Art Unit : 3672
Examiner : Hawkins-Gay, J.

Assistant Commissioner for Patents
Washington, DC 20231

RECEIVED

JUN 25 2002

REPLY UNDER 37 CFR § 1.111

GROUP 3000

Dear Sir:

In response to the Office Action dated February 15, 2002, please amend the application as follows and consider the included remarks.

IN THE TITLE:

Please replace the title of the invention with the following. A marked up copy of the title showing insertions and deletions is attached hereto in Appendix A.

Q1 STRUCTURE FOR POLYCRYSTALLINE DIAMOND INSERT DRILL BIT BODY

IN THE SPECIFICATION:

Please replace the paragraph starting at page 7, line 8 with the following paragraph. A marked up copy of the replacement paragraph is attached hereto in Appendix A showing insertions and deletions.

Q2 In a drill bit body made according to the invention, a displacement such as shown in Figures 1 and 2 is positioned in the mold at each place where a cutting element is to be mounted. Each mounting pad thus formed in the bit body will have a relief groove such as shown in Figure 3. An example of a PDC cutter drill bit made according to the invention is shown in Figure 4. The bit body 100 has thereon a plurality of blades 110. Each of the blades 110 has mounted thereon a plurality of mounting pads (each shaped according to Figure 3). Each of the mounting pads has thereon a PDC cutting element